Applicant : Daniell Stevens et al.
Serial No. : 09/845,769
Filed : May 2, 2001
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Docket No.: 13865-074001

REMARKS

Claims 1-32 are pending with claims 1, 4, 15, 16, and 18 being independent. Claims 33-53 are withdrawn and canceled in accordance with a provisional election made without traverse during a telephone interview with Examiner Daniel Nolan on November 13, 2003. Claims 1, 4, 5, and 14 have been amended, as have the title, abstract, specification and drawings. No new matter has been added.

Applicants acknowledge with appreciation the Examiner's allowance of claims 15-32 and the Examiner's indication that claims 4-14 would be allowable if rewritten in independent form. In response, claim 4 has been rewritten in independent form.

The Examiner has objected to the abstract as including an incomplete sentence and as not being a brief narrative of the disclosure as a whole. The abstract has been amended to address the Examiner's concerns.

The Examiner has objected to the specification as not presenting trademarks using all capital letters. The specification has been amended to address the Examiner's concerns.

The Examiner has objected to the title of the invention as not being descriptive. The title has been amended to address the Examiner's concerns.

The Examiner has objected to claims 5 and 14 because of various informalities. Claims 5 and 14 have been the amended in accordance with the Examiner's suggestions.

The Examiner has objected to the drawings as failing to compy with 37 CFR 1.84(p)(5). In particular, the Examiner objects to the paragraph beginning on page 20, line 10 which refers to Figure 9 and includes a reference to a cable 1415 which is not shown in Figure 9. Figure 9 shows recorder 1405 which was initially introduced in Figs. 5 and 6. Accordingly, cable 1415, which is connected to recorder 1405, need not be described again since it was already described with respect to Figs. 5 and 6 (see p. 19, lines 13-28). The Examiner also objects to the description of Figure 20 as referencing an item "2600" that is not shown in the drawing. Figure 20 has been amended to show item "2600." A short overview has alse been added to the specification prior to the descriptions of Figures 6-10 per the Examiner's suggestion.

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Independent claim 1 has been rejected as being anticipated by Chen (U.S. Patent No. 5,864,805), and claims 2 and 3, which depend from claim 1, have been rejected as being obvious in view of Chen.

Claim 1, as amended, recites a method of correcting incorrect text associated with recognition errors in computer-implemented speech recognition that includes performing speech recognition on an utterance to produce a recognition result for the utterance and replacing a portion of the recognition result. The portion of the recognition result that is replaced "includes at least one word from the recognized utterance that was not previously selected for correction by a user." Applicants request reconsideration and withdrawal of the rejection of claim 1, and its dependent claims, because Chen does not describe or suggest replacing a portion of a recognition result that includes at least one word that was not previously selected.

Chen describes a speech recognition system which enables a user to select an incorrect word 304 or a string of incorrect words 404 in a text 301 or 401 that corresponds to recognized speech (see Figs. 3 and 4 of Chen). The user may replace the selected incorrect word 304 or string of incorrect words 404 with a word or string of words selected from a list 305 or 405. Chen, however, requires that each word that is replaced by a selection from the list 305 or 405 be previously selected or designated for correction by the user. If a word in text 301 or 401 is not selected by the user for correction, that word is not replaced by the Chen system. Accordingly, Chen does not describe or suggest the recited method of correcting text constructed through speech recognition of an utterance wherein a portion of the text that is replaced "includes at least one word from the recognized utterance that was not previously selected for correction by a user."

For at least this reason, Applicants request reconsideration and withdrawal of the rejection of claim 1, and claims 2 and 3 which depend from claim 1.

Enclosed is a $420 check for the Petition for Extension of Time fee. Please apply any other charges or credits to deposit account 06-1050.
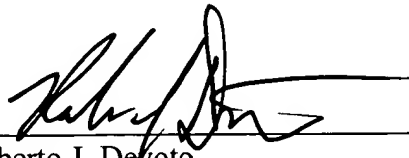
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Respectfully submitted,

Date: 4/19/07

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ABSTRACT

Correcting incorrect text associated with recognition errors in computer-implemented speech recognition includes performing speech recognition on an utterance to produce a recognition result for the utterance. A selection of a word from the recognized utterance is received. The selection indicates a bound of a portion of the recognized utterance to be corrected. A first alternative transcript is compared to the recognized utterance to be corrected, and a first recognition correction is produced based on the comparison. A second alternative transcript is compared to the recognized utterance to be corrected, and a second recognition correction is produced based on the comparison. The duration of the first recognition correction differs from the duration of the second recognition correction. A portion of the recognition result is replaced with one of the first recognition correction and the second recognition correction. The portion of the recognition result replaced includes at one bound a word indicated by the selection and extends for the duration of the one of the first recognition correction and the second recognition correction with which the portion is replaced. The portion of the recognition result replaced includes at least one word from the recognized utterance that was not previously selected for correction by a user.
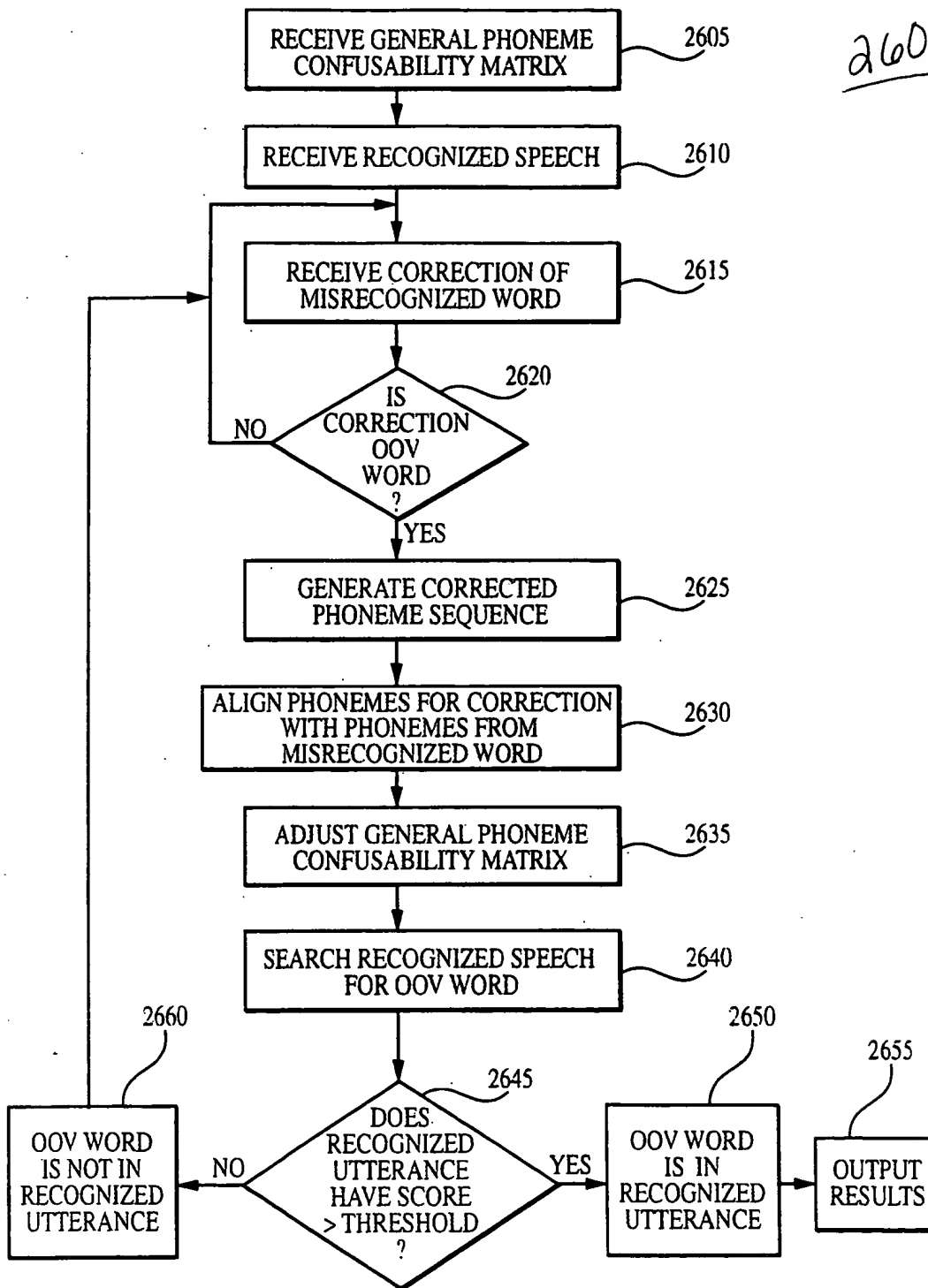
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2600

RECEIVE GENERAL PHONEME CONFUSABILITY MATRIX — 2605

↓

RECEIVE RECOGNIZED SPEECH — 2610

↓

RECEIVE CORRECTION OF MISRECOGNIZED WORD — 2615

↓

IS CORRECTION OOV WORD ? — 2620

NO ←

↓ YES

GENERATE CORRECTED PHONEME SEQUENCE — 2625

↓

ALIGN PHONEMES FOR CORRECTION WITH PHONEMES FROM MISRECOGNIZED WORD — 2630

↓

ADJUST GENERAL PHONEME CONFUSABILITY MATRIX — 2635

↓

SEARCH RECOGNIZED SPEECH FOR OOV WORD — 2640

↓

DOES RECOGNIZED UTTERANCE HAVE SCORE > THRESHOLD ? — 2645

2660 — OOV WORD IS NOT IN RECOGNIZED UTTERANCE ← NO

YES → OOV WORD IS IN RECOGNIZED UTTERANCE — 2650

→ OUTPUT RESULTS — 2655

FIG. 20